



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Eugene A. Pruss et al.

Title: BORON NITRIDE AGGLOMERATED POWDER

Application No.: 10/645,305

Filed: 08/21/2003

Examiner: Langel, Wayne A.

Group Art Unit: 1754

Atty. Docket No.: 1035-BN4126

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COMMISSIONER FOR PATENTS
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the undersigned brings the patents, publications, applications or other information identified in the attached:

- ☒ Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449
☐ Other: n/a

to the Examiner's attention in the above-identified application. Citation of such information shall not be construed as:

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2. a representation that a search has been made, other than as described below; or
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

For each item of information listed that is not in the English language, the undersigned has provided a concise explanation of the relevance, such as through (i) an English language abstract, (ii) an English language equivalent application, (iii) reference to discussion in the application, or (iv) if cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action that indicates the degree of relevance found by the foreign office.

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I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as either First Class Mail or Express Mail, in an envelope addressed to the Commissioner for Patents on <u>11/28/06</u> .	
<u>Kalyn Reinke</u> Typed or Printed Name	<u>E. K. Daghighi</u> Signature

STATEMENT UNDER 37 C.F.R. § 1.704(d)

If the above-identified application is an original application filed on or after
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- ☐ each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement.

FEES DUE

This Information Disclosure Statement is being filed:

- ☒ within three months of the filing date of a national application or within three months of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.
- ☐ before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.
- ☐ during the period specified in § 1.97(c). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this Information Disclosure Statement.
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Should any PTO fees be necessary for entry of this Information Disclosure Statement, the undersigned hereby authorizes the Commissioner to charge Deposit Account 50-3797.

Date

11/28/06

Respectfully submitted,



Jeffrey S. Abel, Reg. No. 36,879

Attorney for Applicant(s)

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Sheet 1 of 8

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First Named Inventor	Eugene A. Pruss
Art Unit	1754
Examiner Name	Wayne A. Langel
Attorney Docket Number	1035-BN4126

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	US- 6,300,607 B1	10/09/2001	Steinhauser et al.	
	B1	US- 5,116,589	05/26/1992	Hoenig	
	C1	US- 6,251,513 B1	06/26/2001	Rector et al.	
	D1	US- 6,124,579	09/26/2000	Steinhauser et al.	
	E1	US- 5,984,055	11/16/1999	Strasser et al.	
	F1	US- 5,962,122	10/05/1999	Walpita et al.	
	G1	US- 5,945,217	08/31/1999	Hanrahan	
	H1	US- 5,898,217	04/27/1999	Johnston	
	I1	US- 5,726,502	03/10/1998	Beddingfield	
	J1	US- 6,585,039 B2	07/01/2003	Sagal et al.	
	K1	US- 2002/0000651 A1	01/03/2002	Takizawa et al.	
	L1	US- 5,614,319 A	03/25/1997	Wessels, et al.	
	M1	US- 5,688,457 A	11/18/1997	Buckmaster et al.	
	N1	US- 5,688,449	11/18/1997	Fox et al.	
	O1	US- 5,770,819	06/23/1998	Mehan	
	P1	US- 2001/0048179	12/06/2001	Stewart et al.	
	Q1	US- 2,991,508	07/11/1961	Reuben et al.	
	R1	US- 3,125,547	03/17/1964	Blatz et al.	
	S1	US- 5,610,203	03/11/1997	Buckmaster et al.	

FOREIGN PATENT DOCUMENTS

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	T1	WO 01/83371 A2	11/08/2001	Saint-Gobain Ceramics & Plastics, Inc.		
	U1	EP 0 939066 A1	09/01/1999	Advanced Ceramics Corporation		
	V1	WO 97/37828	10/16/1997	DuPont		
	W1	JP 2003-518185	06/03/2003			
	X1	JP 2003-508259	07/04/2000			
	Y1	WO 01/46313 A1	06/28/2001	E.I. Du Pont De, et al.		

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STATEMENT BY APPLICANT**

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Sheet **2** of **8****Complete if Known**

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Filing Date	August 21, 2003
First Named Inventor	Eugene A Pruss
Art Unit	1754
Examiner Name	Wayne A. Langel
Attorney Docket Number	1035-BN4126

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		Number-Kind Code ² (if known)			
	A2	US- 5,783,308	07/21/1998	Leendersen	
	B2	US- 5,945,478	08/31/1999	Buckmaster et al.	
	C2	US- 5,898,009	04/27/1999	Shaffer et al.	
	D2	US- 6,048,511	04/11/2000	Shaffer et al.	
	E2	US- 6,645,612	11/11/2003	Pujari et al.	
	F2	US- 6,660,241	12/09/2003	Clere et al.	
	G2	US- 4,514,370	04/30/1985	Inoue et al.	
	H2	US- 4,731,311	03/15/1988	Suzuki et al.	
	I2	US- 5,039,435	08/13/1991	Hanano	
	J2	US- 4,927,587	05/22/1990	Takahashi et al.	
	K2	US- 6,541,111	04/01/2003	Fauzi et al.	
	L2	US- 6,867,445	03/15/2005	Jang	
	M2	US- 6,713,088	03/30/2004	Lodyga et al.	
	N2	US- 4,801,445	01/31/1989	Fukui et al.	
	O2	US- 4,869,954	09/26/1989	Squitieri	
	P2	US- 4,882,225	11/21/1989	Fukui et al.	
	Q2	US- 5,011,870	04/30/1991	Peterson	
	R2	US- 5,194,480	03/16/1993	Block et al.	
	S2	US- 5,213,868	05/25/1993	Liberty et al.	

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	T2	JP 61268763 A	11/28/1986	Shiseido Co. Ltd.	Abstract Only	
	U2	JP 1038424 A	02/08/1989	Matsushita Electric Works Ltd.	Abstract Only	
	V2	JP 89054379 B	11/17/1989	Shiseido Co. Ltd.	Abstract Only	
	W2	JP 2590908 B2	03/19/1997	Matsushita Electric Works Ltd.	Abstract Only	
	X2	JP 2590964 B2	03/19/1997	Minolta KK	Abstract Only	
	Y2	JP 1126661 A	05/18/1989	Minolta KK	Abstract Only	

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Sheet 3

of 8

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Application Number	10/645,305
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First Named Inventor	Eugene A Pruss
Art Unit	1754
Examiner Name	Wayne A. Langel
Attorney Docket Number	1035-BN4126

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		Number-Kind Code ² (if known)			
	A3	US- 5,234,712	08/10/1993	Howard	
	B3	US- 5,283,542	02/01/1994	Ochiai et al.	
	C3	US- 5,285,108	02/08/1994	Hastings et al.	
	D3	US- 5,298,791	03/29/1994	Liberty et al.	
	E3	US- 5,374,036	12/20/1994	Rogers et al.	
	F3	US- 5,508,110	04/16/1996	Howard	
	G3	US- 5,510,174	04/23/1996	Litman	
	H3	US- 5,528,462	06/18/1996	Pendse	
	I3	US- 5,545,473	08/13/1996	Ameen et al.	
	J3	US- 5,591,034	01/07/1997	Ameen et al.	
	K3	US- 5,601,874	02/11/1997	Howard et al.	
	L3	US- 5,681,883	10/28/1997	Fujimori et al.	
	M3	US- 5,738,936	04/14/1998	Hanrahan	
	N3	US- 5,849,316	12/15/1998	Mellul et al.	
	O3	US- 5,907,474	05/25/1999	Dolbear	
	P3	US- 5,926,371	07/20/1999	Dolbear	
	Q3	US- 5,950,066	09/07/1999	Hanson et al.	
	R3	US- 5,981,641	11/09/1999	Takahashi et al.	
	S3	US- 6,168,859	01/02/2001	Mills et al.	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	T3	JP 11116213 A	04/27/1999	Toshiba Ceramics Co.	Abstract Only	
	U3	JP 11209618 A	08/03/1999	Matsushita Electric Works Ltd.	Abstract Only	
	V3	JP 3290127 B2	06/10/2002	Matsushita Electric Works Ltd.	Abstract Only	
	W3	EP 0 479 387 A1	04/08/1992	Herstein, Morris		
	X3	EP 0 896 031 A2	02/10/1999	Shin-Etsu Chem. Col, Ltd		
	Y3	JP 11005907 A2	10/12/1999	Mitsui Chemicals Inc.	Abstract Only	

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		Number-Kind Code ² (if known)			
	A4	US- 6,284,817	09/04/2001	Cross et al.	
	B4	US- 4,188,194	02/12/1980	Corrigan	
	C4	US- 5,854,155	12/29/1998	Kawasaki et al.	
	D4	US- 4,863,881	09/05/1989	Ahrens et al.	
	E4	US- 5,985,228	11/16/1999	Corrigan et al.	
	F4	US-			
	G4	US-			
	H4	US-			
	I4	US-			
	J4	US-			
	K4	US-			
	L4	US-			
	M4	US-			
	N4	US-			
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	P4	US-			
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	T4	JP 10204300 A	08/04/1998	Mitsui Petrochem Ind. Co. Ltd.	Abstract Only	
	U4	JP 09151324 A	06/10/1997	Fuji Kobunshi Kogyo KK	Abstract Only	
	V4	JP 04321506 A2	11/11/1992	Matsushita Electric Works, Ltd.	Abstract Only	
	W4	JP 2981002 B2	11/22/1999	Matsushita Electric Works, Ltd.	Abstract Only	
	X4	EP 0 982 391 A1	03/01/2000	Shin-Etsu Chem. Co. Ltd.		
	Y4	JP 07157369 A2	06/20/1995	Hitachi Ltd.	Abstract Only	

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	R5	US-			
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	T5	EP 0 279 769 A2	08/24/1988	Rogers Corporation		
	U5	EP 432007 A	06/12/1991	Rhodia SA	Abstract Only	
	V5	AU 9067727 A	06/13/1991	Rhodia SA	Abstract Only	
	W5	NO 9005289 A	06/10/1991	Rhodia SA	Abstract Only	
	X5	CA 20318324	06/09/1991	Rhodia SA	Abstract Only	
	Y5	FI 9006048 A	06/09/1991	Rhodia SA	Abstract Only	

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	E6	US-			
	F6	US-			
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	H6	US-			
	I6	US-			
	J6	US-			
	K6	US-			
	L6	US-			
	M6	US-			
	N6	US-			
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	P6	US-			
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				
	T6	FR 2655638 A	06/14/1991	Rhodia SA	Abstract Only	
	U6	PT 96113 A	09/30/1991	Rhodia SA	Abstract Only	
	V6	BR 9006359 A	09/24/1991	Rhodia SA	Abstract Only	
	W6	JP 5078106 A	03/30/1993	Rhodia SA	Abstract Only	
	X6					
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/645,605
Filing Date	August 21, 2003
First Named Inventor	Eugene A. Pruss
Art Unit	1754
Examiner Name	Wayne A. Langel
Attorney Docket Number	1035-BN4126

Sheet 7 of 8

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A7	N. Dean et al., "Novel Thermal Interface Material with Aligned Conductive Fibers", Johnson Matthey Electronics, Spokane, WA, 6 pgs.	
	B7	Rudin, A., et al., "Fluorocarbon Elastomer Aids Polyolefin Extrusion:", PLASTICS ENGINEERING, SOCIETY OF PLASTICS ENGINEERS, INC., Greenwich, Conn., US, pp. 63-66, 1986.	
	C7	Rosenbaum, E., et al., "Boron Nitride as a Porcessing Aid for the Extrusion of Polyolefins and Fluoropolymers", RAPRA ABSTRACTS, PERGAMON PRESS, LTD. Oxford, GB, pg. 168, 2000	
	D7	YIP, et al., "The Effect of the Boron Nitride on Melt Fracture in Blow Moulding Extrusion"	
	E7	Hagio et al., "Sintering o fthe Mechanochemically Activated Powders of Hexagonal Boron Nitride", J. Am Cer. Soc., Vol. 72, pgs 1482-1484, 1989.	
	F7	YIP et al., "The Effect of the Boron Nitride Type and Concentration ofn the Rheology and Processability of Molten Polymers:", ANTEC 1999, Tech. Papers, 45, New York, 1999.	
	G7	Rosenbaum, E. et al., "A New Processing Additive Eliminating Surface and Gross Melt Fracture in the Extrusion of Polyolefins and Fluoropolymers", ANTEC 1998.	
	H7	Seth, et al., "The Effect of Surface Energy of Boron Nitride Powders on Gross Melt Fracture Elimination", ANTEC 2001.	
	I7	Rosenbaum, E., et al. "Boron Nitride as a Processing Aid for the Extruxion of Polyolefins and Fluoropolymers", POLYMER ENGINEERING AND SCIENCE, Vol. 40, No. 1, pgs 179-190, January 2000.	
	J7	Quotation (June 5, 1998) and Request for Quotation Form (May 15, 1998)	

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Sheet	8	of	8
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	A8	Quotation (December 2, 1999) and Request for Quotation Form for Item 1, Item 2, and Item 3 (November 30, 1999).	
	B8	Phone Call Report (October 20, 1998), Shipment Information for XP 1115 and Experimental Product Analysis (October 23, 1998).	
	C8	Quotation (May 19, 1999) and Experimental Product Analysis for XP 11047 (May 18, 1999).	
	D8	Carborundum Boron Nitride Data Sheet, "Cosmetic Grade Boron Nitride Powders" (6/98).	
	E8	"Silicones & Silicon-Containing Polymers," Petrarch Systems Silanes and Silicones: Silicon Compounds Register & Review (1987)	
	F8		
	G8		
	H8		
	I8		
	J8		

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